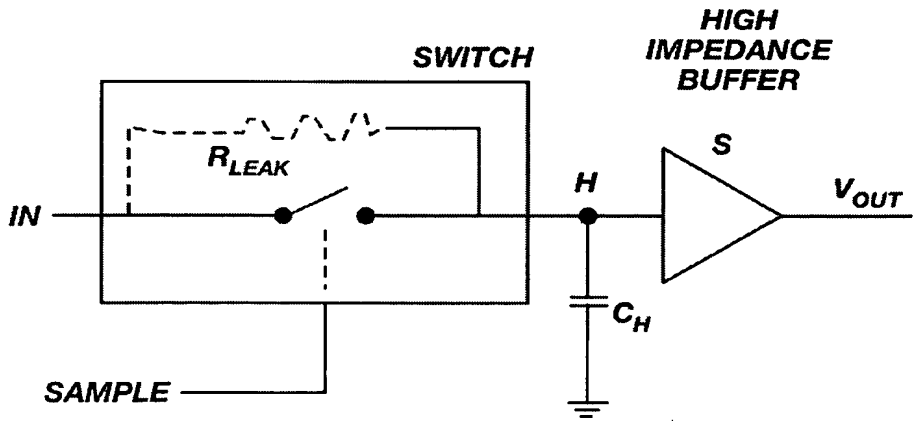

FIG. 1
(PRIOR ART)

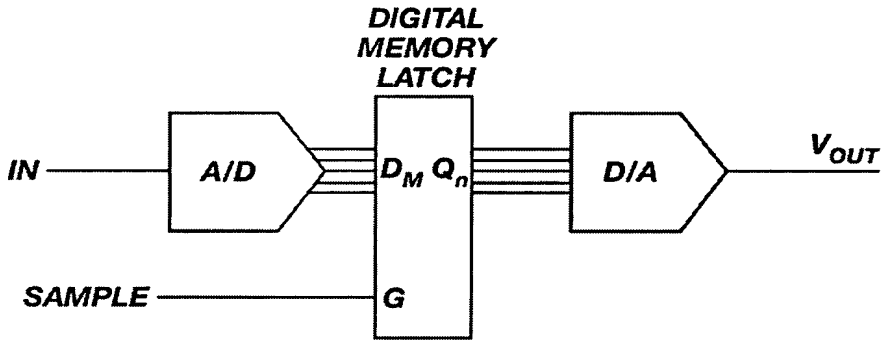

FIG. 2
(PRIOR ART)

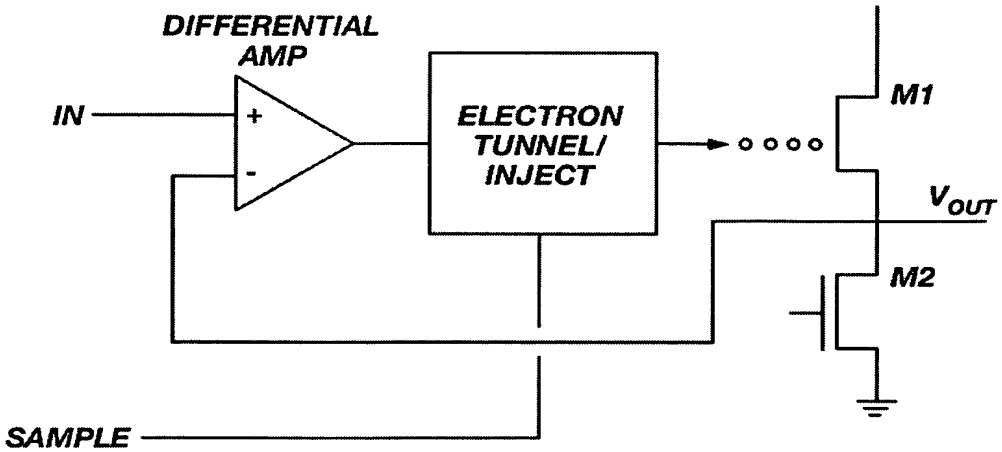

FIG. 3
(PRIOR ART)

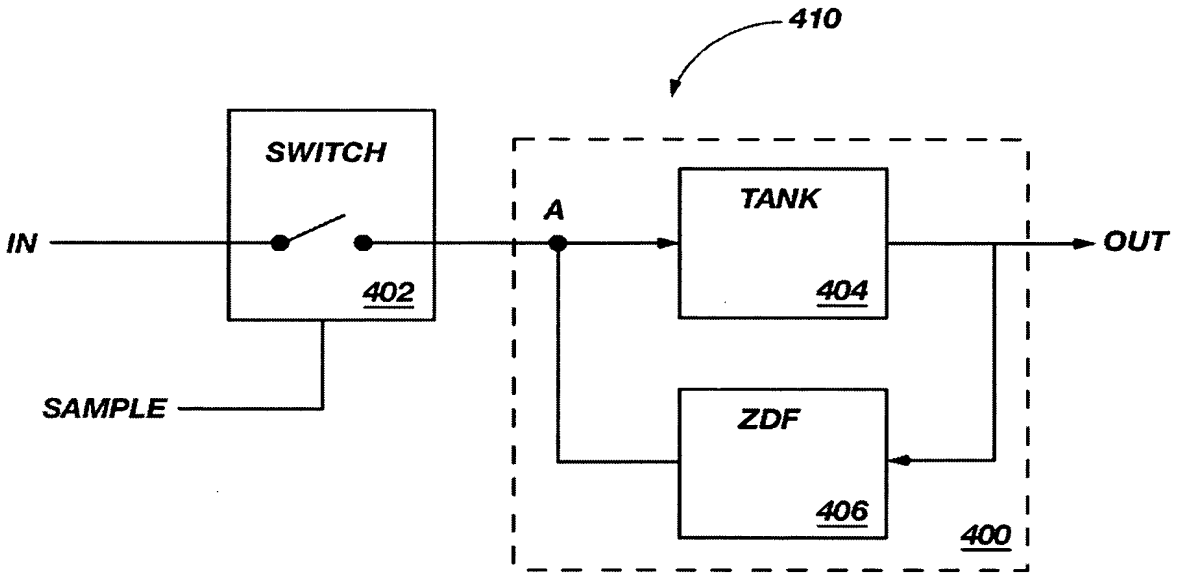
410
SWITCH
IN
402
SAMPLE
A
TANK
404
OUT
ZDF
406
400

FIG. 4

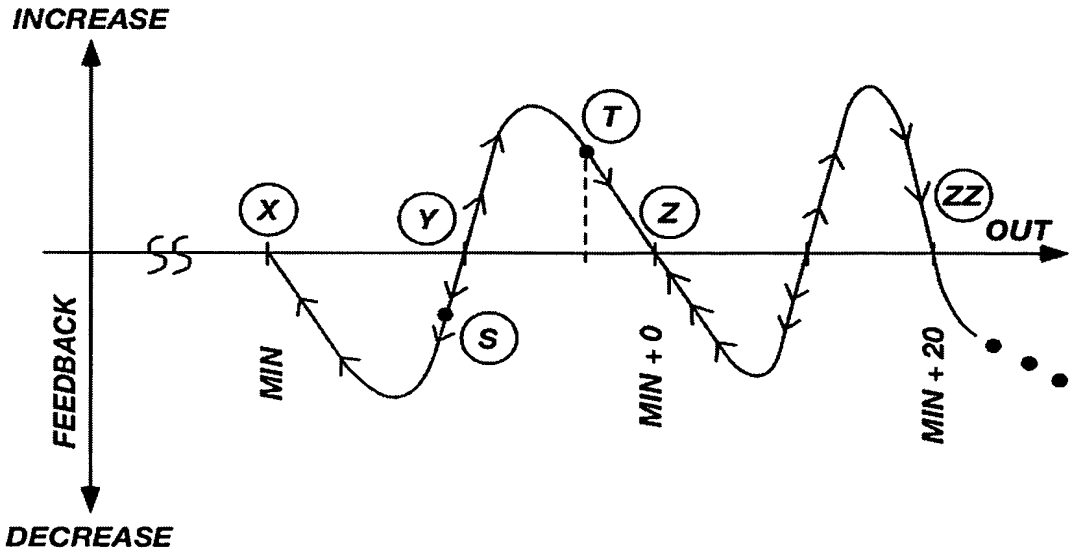
INCREASE
FEEDBACK
DECREASE
X
Y
T
Z
ZZ
S
OUT
MIN
MIN + 0
MIN + 20

FIG. 5

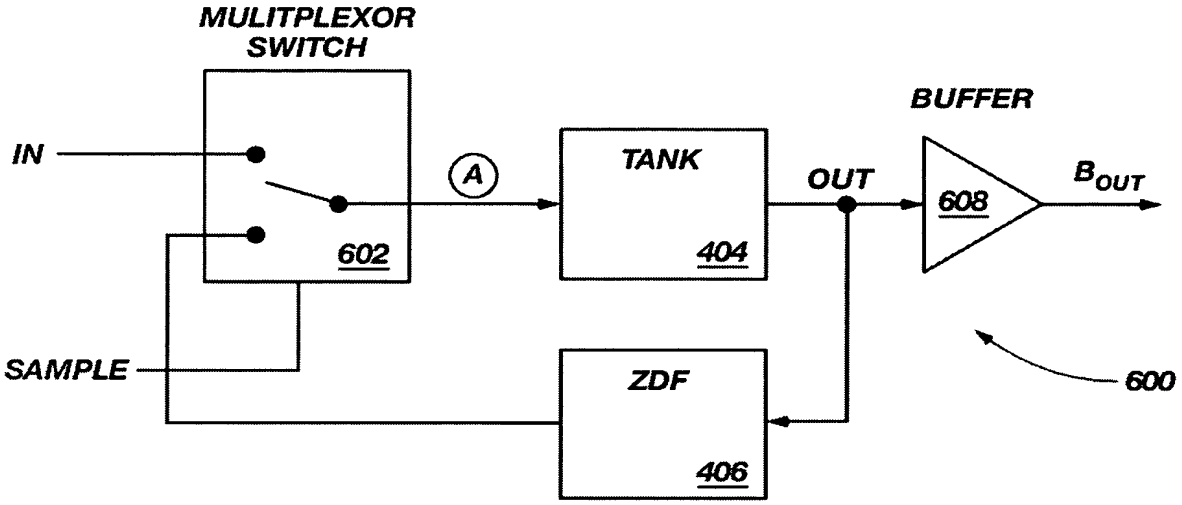
MULITPLEXOR
SWITCH
IN
A
602
TANK
404
OUT
BUFFER
608
B_{OUT}
SAMPLE
ZDF
406
600

FIG. 6

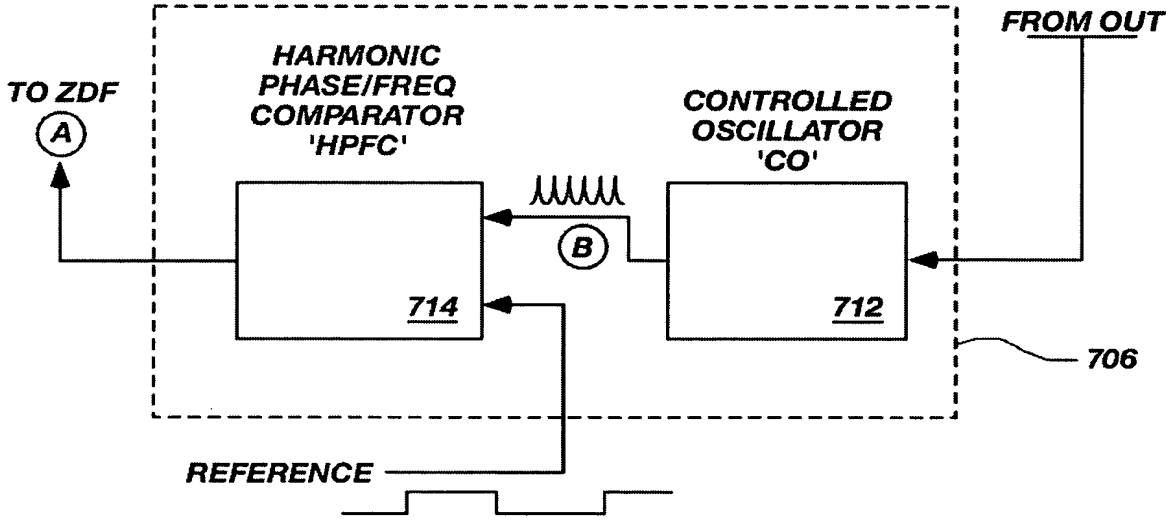
TO ZDF
A
HARMONIC
PHASE/FREQ
COMPARATOR
'HPFC'
714
B
CONTROLLED
OSCILLATOR
'CO'
712
FROM OUT
706
REFERENCE

FIG. 7

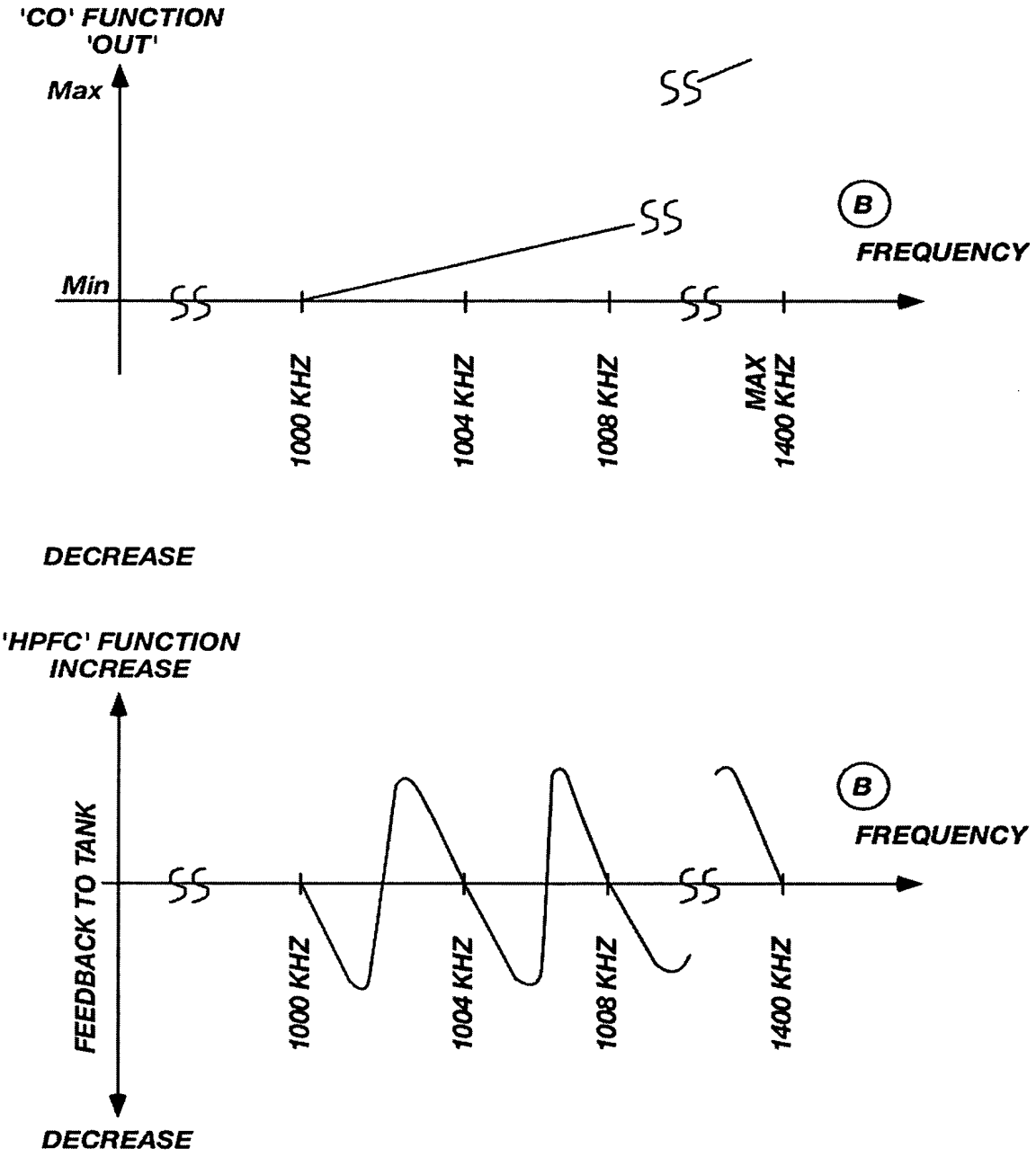
'CO' FUNCTION
'OUT'
Max
Min
B
FREQUENCY
1000 KHZ
1004 KHZ
1008 KHZ
MAX
1400 KHZ
DECREASE
'HPFC' FUNCTION
INCREASE
FEEDBACK TO TANK
B
FREQUENCY
1000 KHZ
1004 KHZ
1008 KHZ
1400 KHZ
DECREASE

FIG. 8

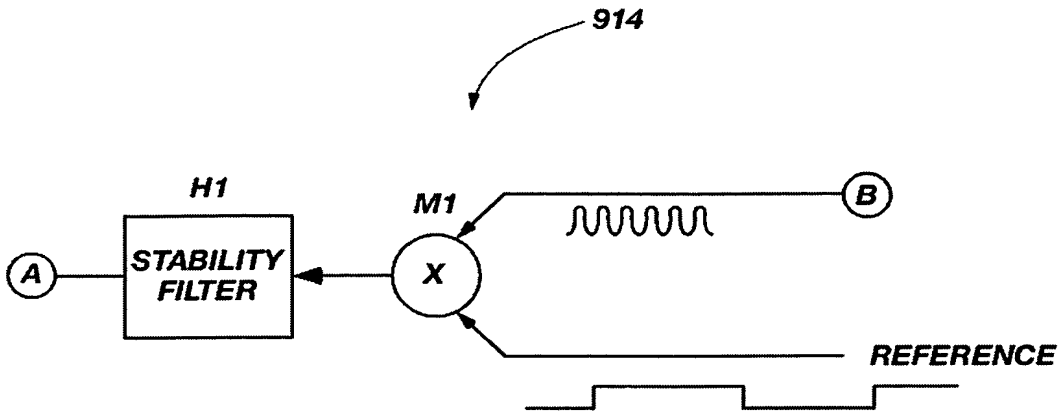
914
H1
M1
B
A
STABILITY FILTER
X
REFERENCE

FIG. 9

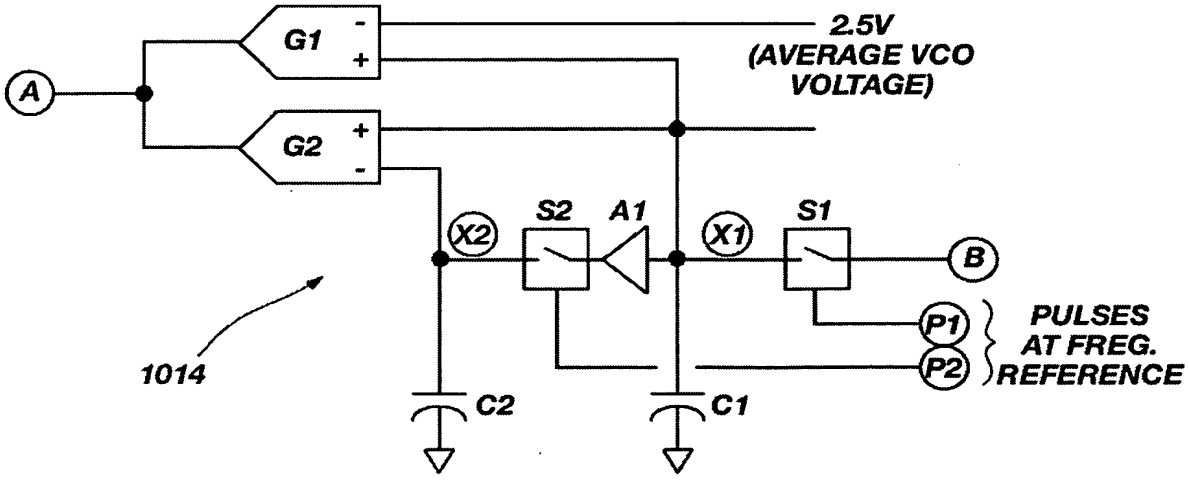
G1
-
+
2.5V
(AVERAGE VCO
VOLTAGE)
A
G2
+
-
X2
S2
A1
X1
S1
B
P1
P2
PULSES
AT FREG.
REFERENCE
1014
C2
C1

FIG. 10

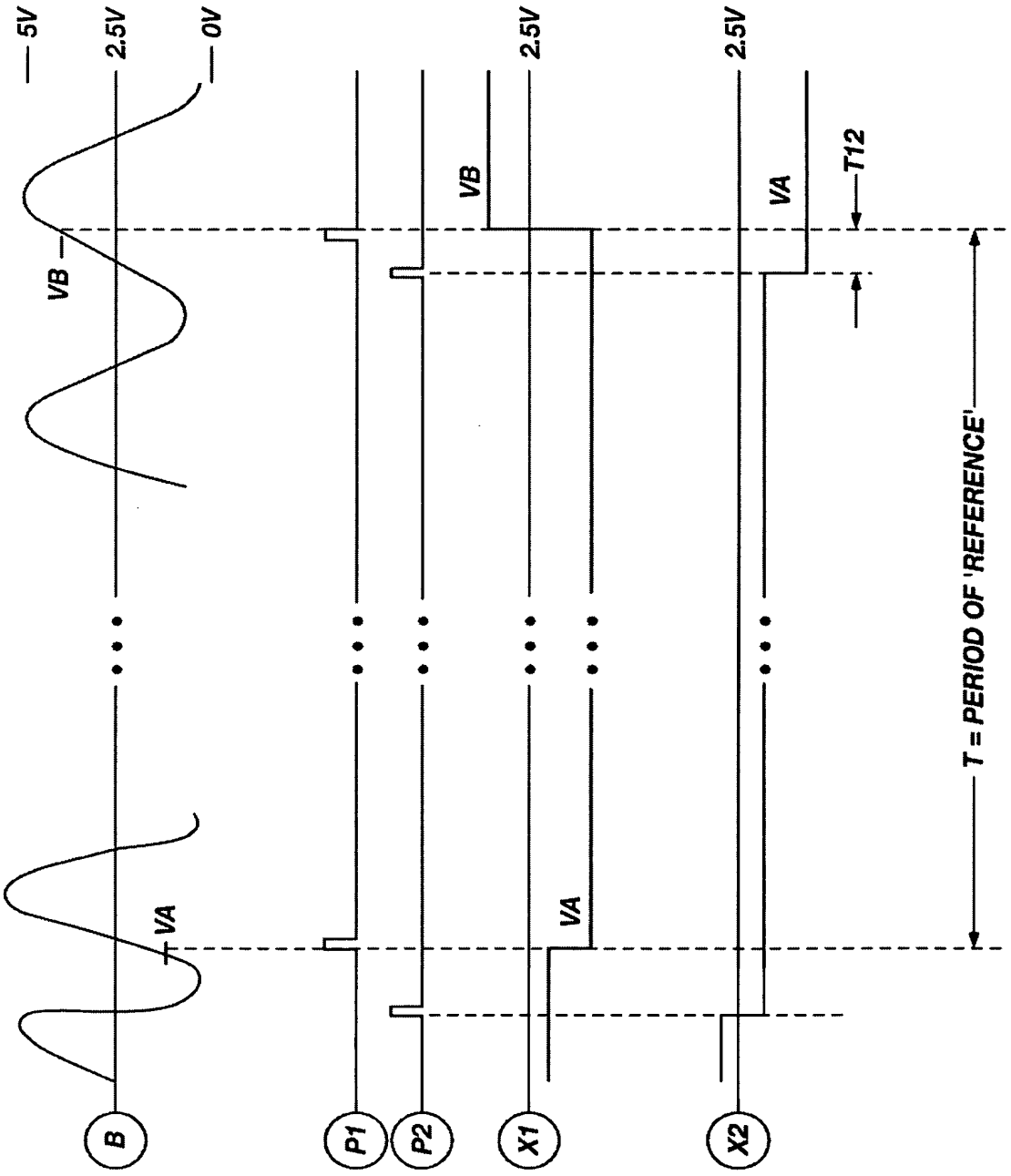

FIG. 11

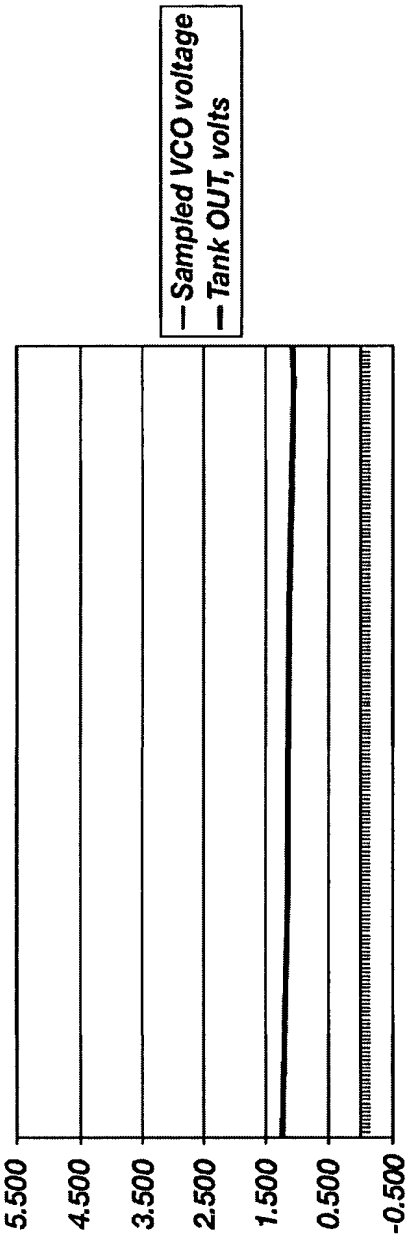
Sampled VCO voltage
Tank OUT, volts
5.500
4.500
3.500
2.500
1.500
0.500
-0.500

FIG. 12

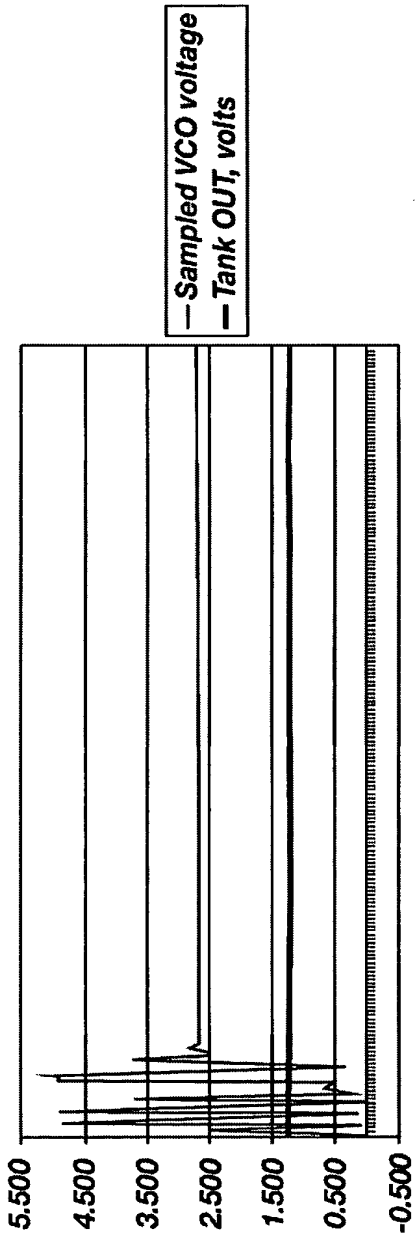
Sampled VCO voltage
Tank OUT, volts
5.500
4.500
3.500
2.500
1.500
0.500
-0.500

FIG. 13

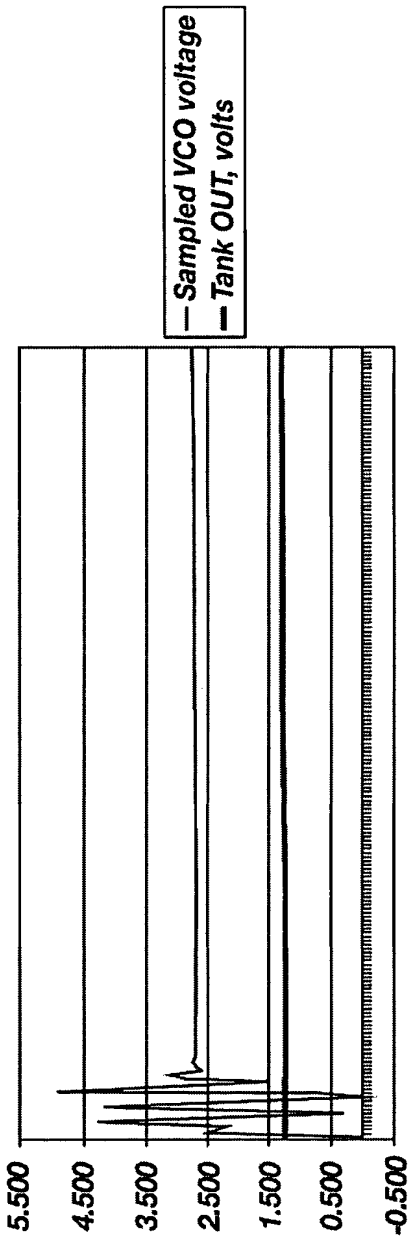
Sampled VCO voltage
Tank OUT, volts
5.500
4.500
3.500
2.500
1.500
0.500
-0.500

FIG. 14